

T0604D* T5262260

ecoRI
 1 GAATTCAACT TCCTCATACT TTGATAAGG AAATACAGAC ATGAAAAATC TCATTCTCTGA GTTGTATTATTT AAGCTTGCCC AAAAAGAAGA AGAGTCGAAT
 CTTAAGTTGA AGAGGTATGA AACCTATCC TTTATGTCG TACTTTTATAG AGTAACGACT CAACAATAAA TTCGAACGGG TTTTCTCTCT TCCTCAGCTTA
 101 GAACTGTGTG CCGAGGTAGA AGCTTTTGGAG ATTATCGTCA CTGCAATGCT TCGCAATATG GCGCAAAATG ACCAACACGG GTTGATTGAT CAGGTAGAGG
 CTTGACACAC GGGTCCATCT TCGAAACCTC TAAATAGCACT GACGTTACGA AGCGTTATAC CGCGTTTATC TGGTGTGTCG CAACTAACCTA GTCCATCTCC
 201 GGGCGCTGTA CGAGGTAAAG CCGATGCCA GCATTCTCTGA CGACGATACG GAGGTGCTGC GCGATTACGT AAAGAAGTTA TTGAAGCATC CTCGTCAAGTA
 CCCGCGACAT GCTCCATTTC GGGCTACGGT CGTAAGGACT GCTGCTATGC CTCGACGACG CGCTAATGCA TTCTCTCAAT AACTTCGTAG GACAGTCAT
 301 AAAAGTTAAT CTTTTCACCA GCTGTCATAA AGTTGTACAG GCCGAGACTT ATAGTCGCTT TGTTTTATTT TTTTAAATGTA TTCTGTAACCTA GTACGCAAGT
 TTTTCAATTA GAAAAGTTGT CGACAGTATT TCAACAGTGC CGGCTCTGAA TATCAGCGAA ACAAAAATAA AAAATTACAT AACATTGAT CATGCCTTCA
 Trp SD xbaI STII SD
 401 TCACGTAAA AGGGTATCTA GAGGTGAGG TGATTTT
 AGTGCATTTT TCCCATAGAT CTCCAACTCC ACTAAA
 Met Lys Lys Asn Ile Ala Phe Leu Leu Ala Ser Met Phe Val Phe Ser

1

486 ATT GCT ACA AAT GCC TAT GCA (SEQ ID NO: 13)

TAA CGA TGT TTA CGG ATA CGT

17 Ile Ala Thr Asn Ala Tyr Ala (SEQ ID NO: 14)

FIG. 1

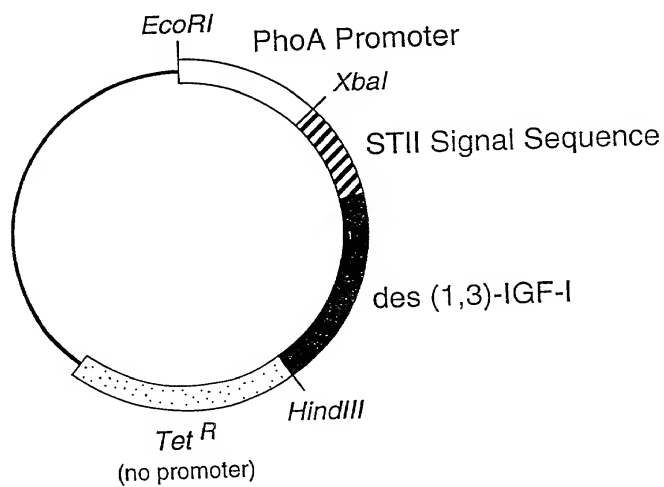


FIG. 2

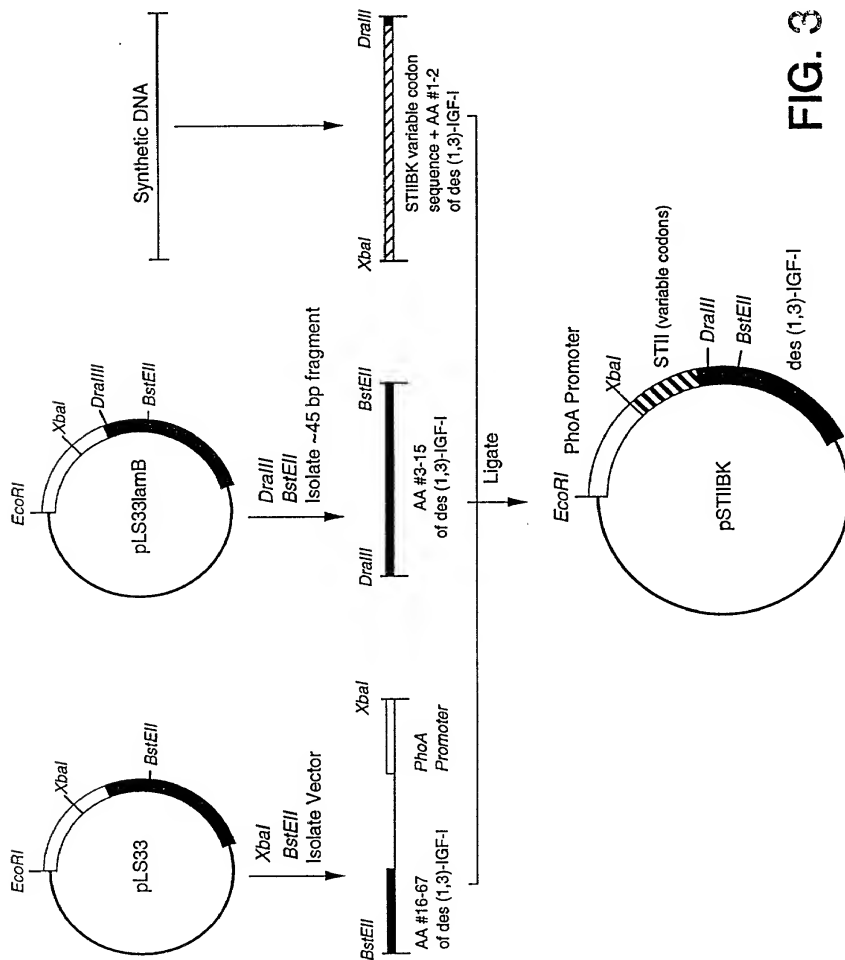


FIG. 3

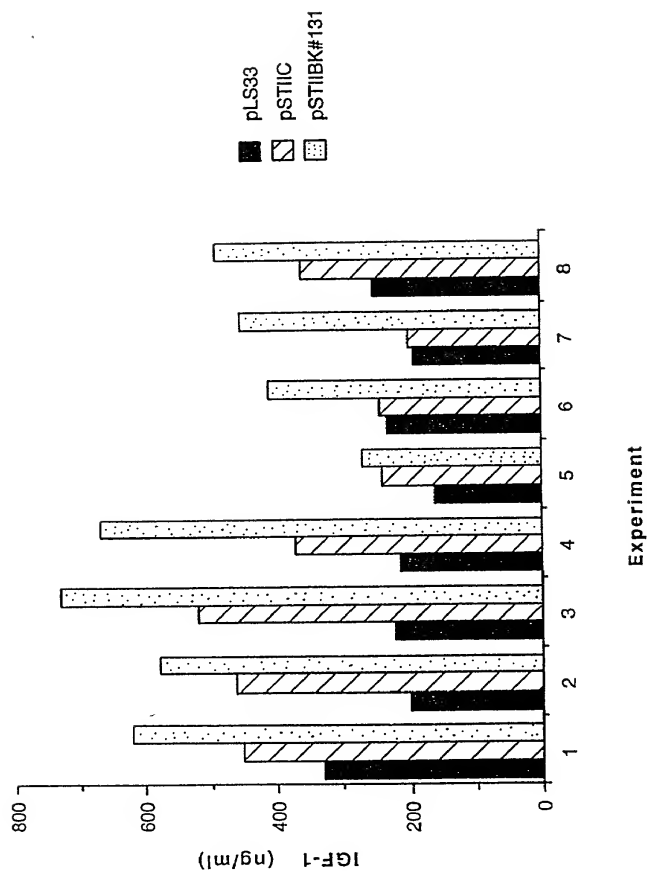


FIG. 4

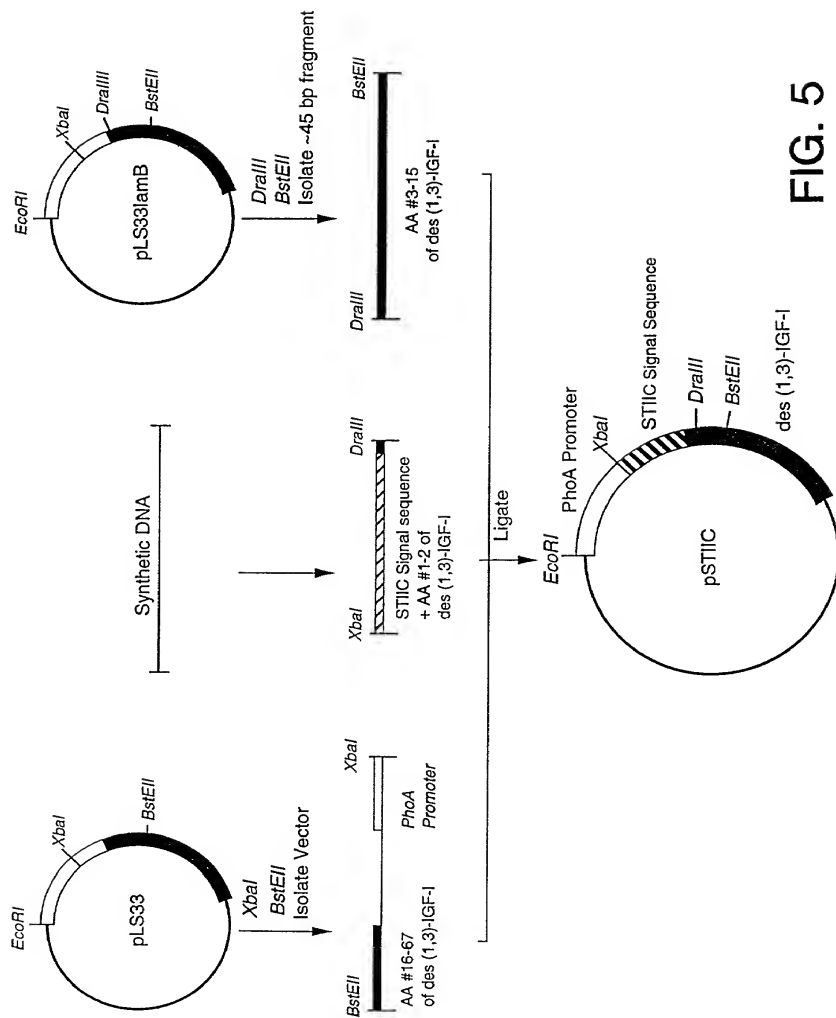


FIG. 5

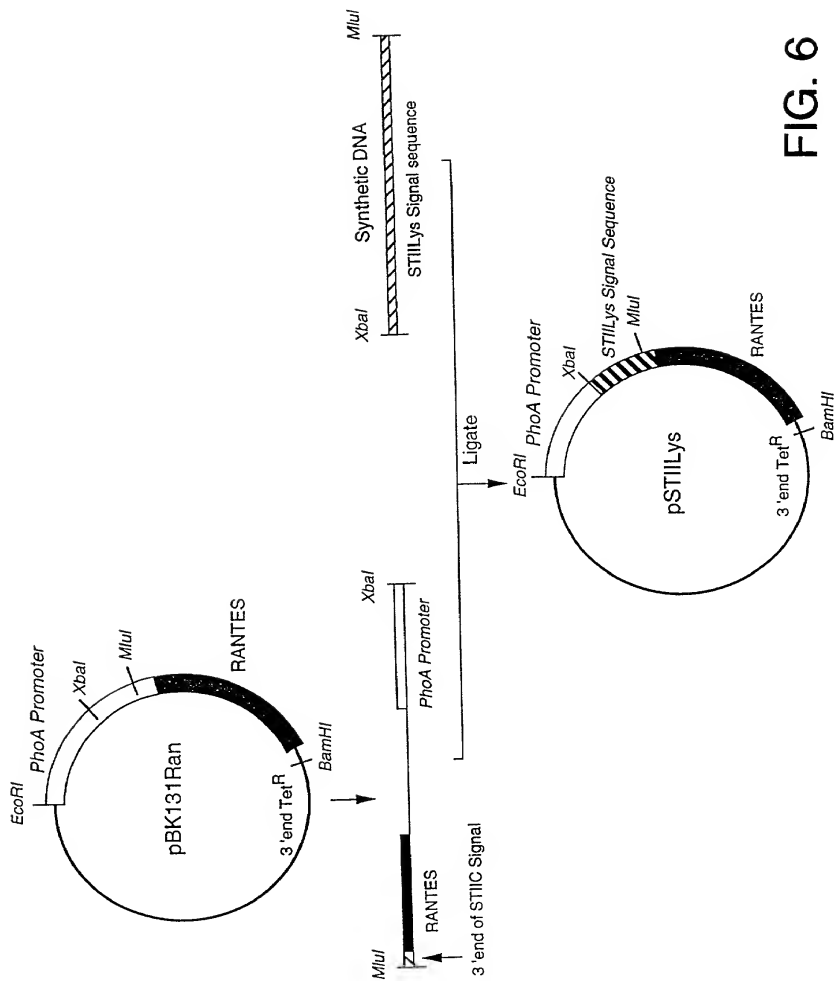


FIG. 6

FIG. 6

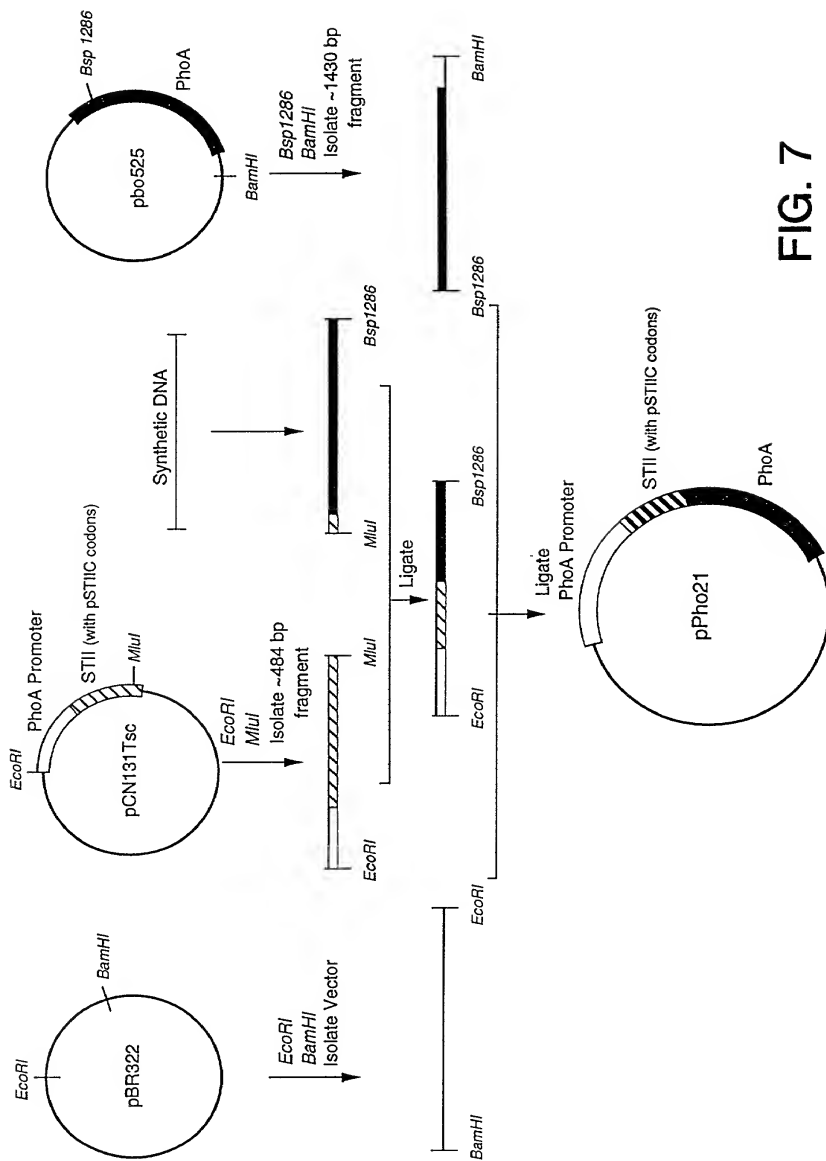


FIG. 7

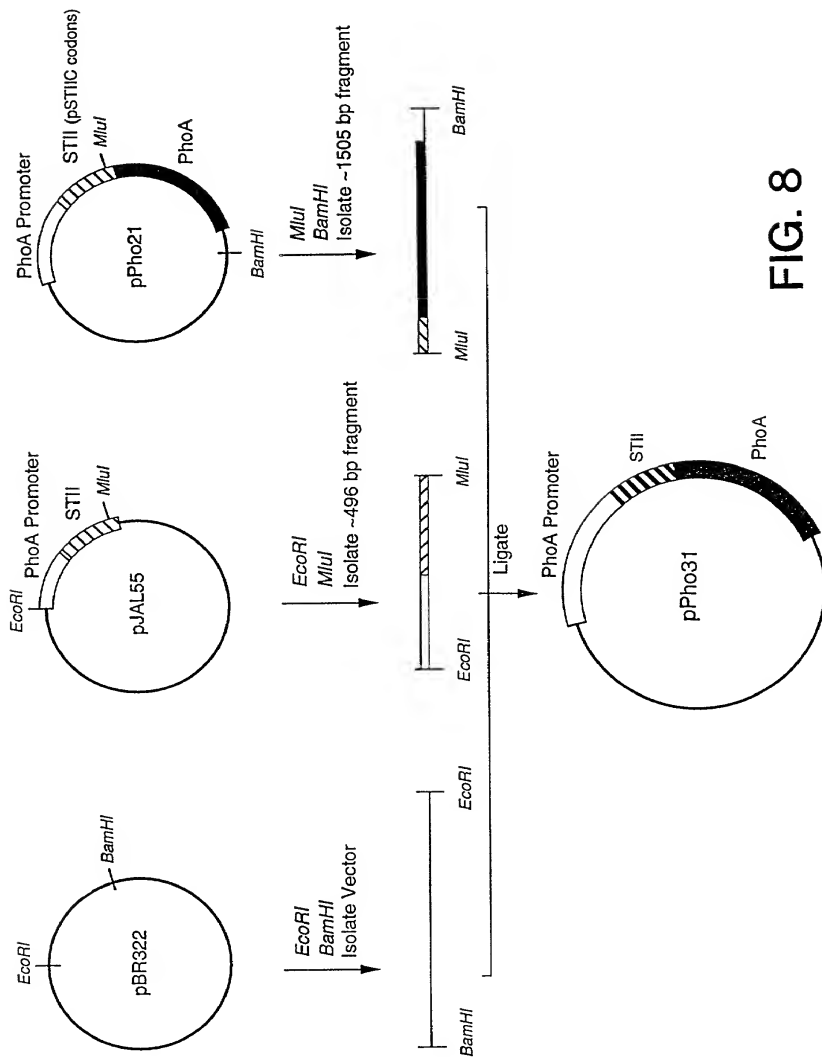


FIG. 8

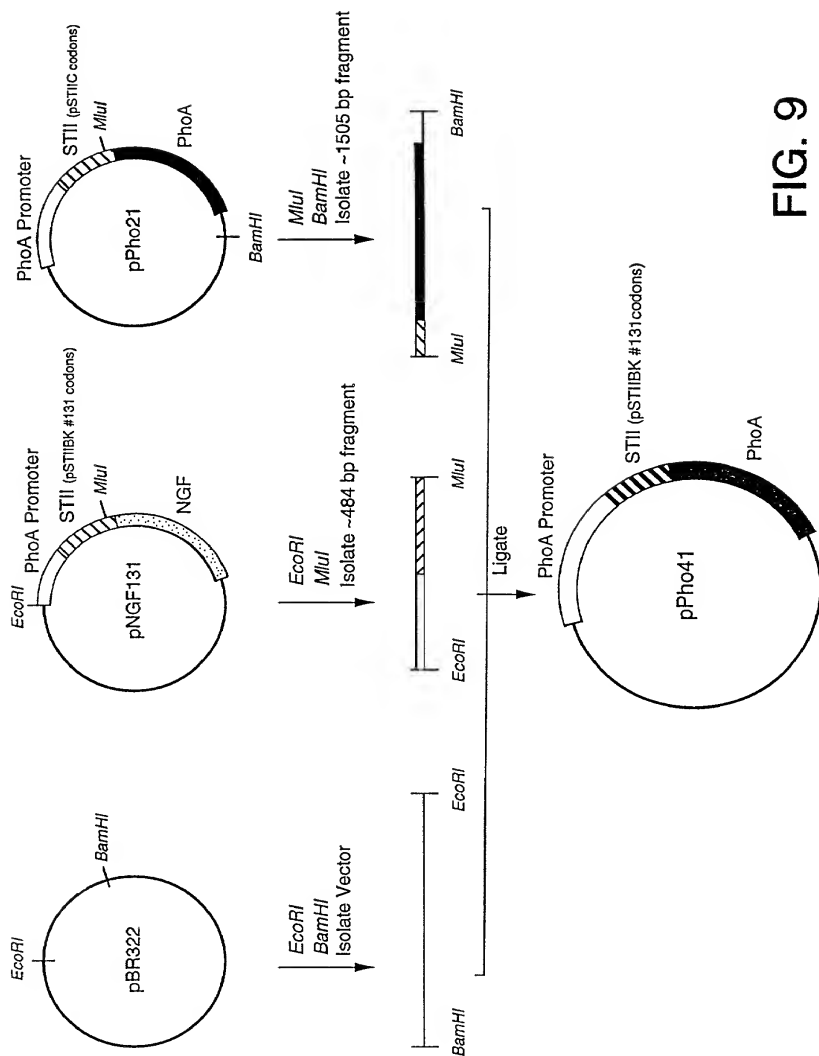


FIG. 9



FIG. 10

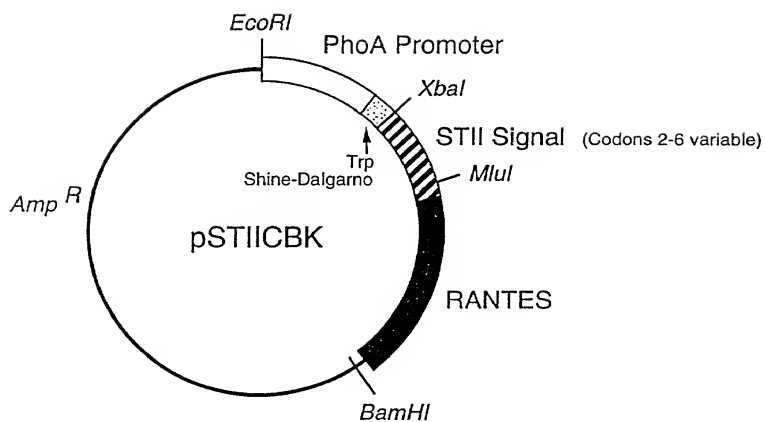


FIG. 11

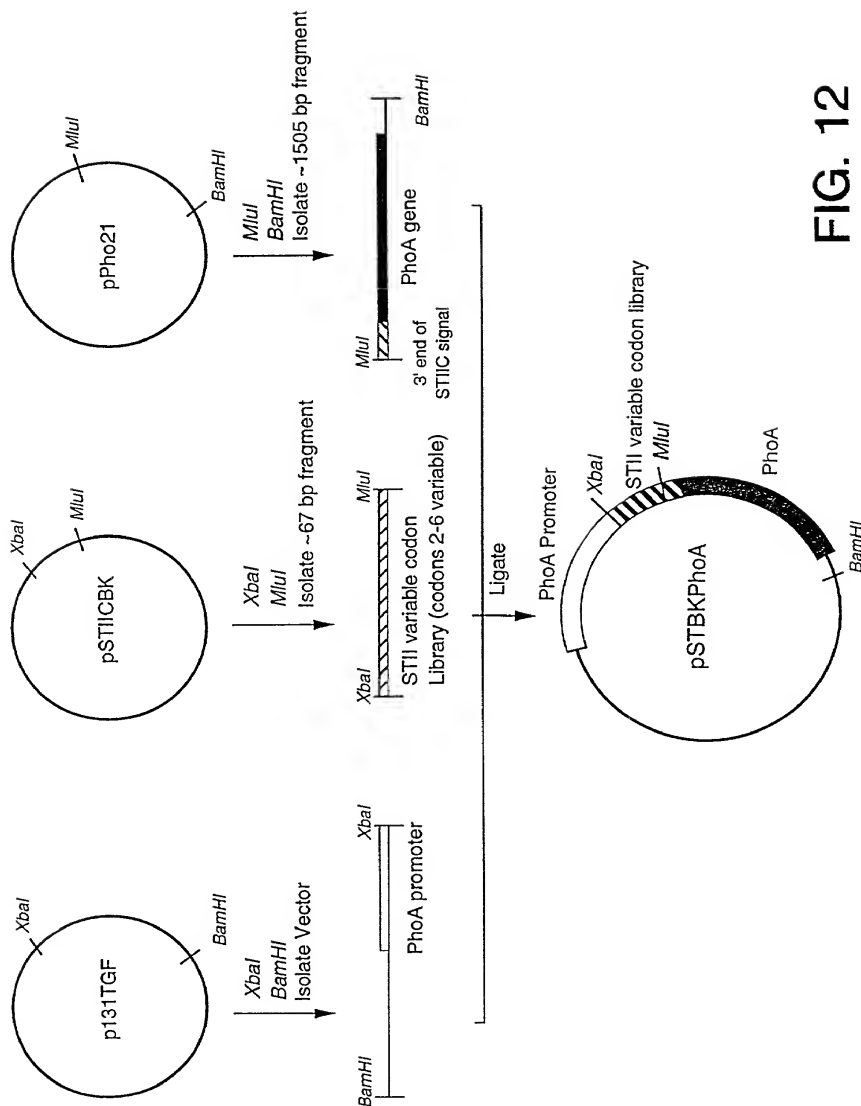


FIG. 12

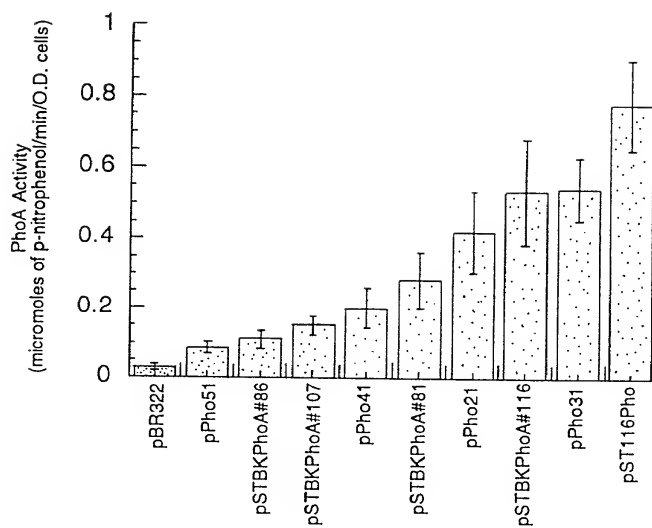


FIG. 13

pPho31 (wild type STII + MluI site)
TCTAGAGGTTGAGGTGATTTT ATG AAA AAG AAT ATC GCA TTT CTT CTT GCA TCT ATG TTC GTT

pPho21 (STIIC)
TCTAGAATT ATG AAA AAG AAT ATC GCA TTT CTT CTT GCA TCT ATG TTC GTT

pPho41 (STIIBK#131)
TCTAGAATT ATG AAG AAG AAT ATT GCG TTC CTA CTT GCC TCT ATG TTT GTC

pPho51 (STIILys - unless otherwise noted this sequence is the TIR-1 used in the examples)
TCTAGAATT ATG AAG AAG AAT ATC GCA TTT CTT CTT GCA TCT ATG TTC GTT

pSTBkPhoA#116
TCTAGAATT ATG AAA AAA AAC ATC GCA TTT CTT CTT GCA TCT ATG TTC GTT

pSTBkPhoA#81
TCTAGAATT ATG AAA AAA AAC ATT GCC TTT CTT CTT GCA TCT ATG TTC GTT

pSTBkPhoA#107
TCTAGAATT ATG AAG AAA AAC ATC GCT TTT CTT CTT GCA TCT ATG TTC GTT

pSTBkPhoA#86
TCTAGAATT ATG AAA AAG AAC ATA GCG TTT CTT CTT GCA TCT ATG TTC GTT

pSTI116Pho
TCTAGAGGTTGAGGTGATTTT ATG AAA AAA AAC ATC GCA TTT CTT CTT GCA TCT ATG TTC GTT

FIG. 14A

TIR RELATIVE STRENGTH										
TTT	TCT	ATT	GCT	ACA	AAY	GCS	TAT	GCM*	(SEQ ID NO:15)	9
TTT	TCT	ATT	GCT	ACA	AAC	GCG	TAT	GCM	(SEQ ID NO:16)	7
TTT	TCT	ATA	GCT	ACA	AAC	GCG	TAT	GCM	(SEQ ID NO:17)	3
TTT	TCT	ATT	GCT	ACA	AAC	GCG	TAT	GCM	(SEQ ID NO:18)	1
TTT	TCT	ATT	GCT	ACA	AAC	GCG	TAT	GCM	(SEQ ID NO:19)	9
TTT	TCT	ATT	GCT	ACA	AAC	GCG	TAT	GCM	(SEQ ID NO:20)	4
TTT	TCT	ATT	GCT	ACA	AAC	GCG	TAT	GCM	(SEQ ID NO:21)	2
TTT	TCT	ATT	GCT	ACA	AAC	GCG	TAT	GCM	(SEQ ID NO:22)	1
TTT	TCT	ATT	GCT	ACA	AAC	GCG	TAT	GCM	(SEQ ID NO:23)	13

* The codons for the last four amino acids of this sequence may differ in some of the examples of protein secretion. For example, in the IGF-1, VEGF165 and RANTES secretion plasmids, the sequence is AAT GCC TAT GCA. The last codon for the last amino acid in every sequence listed may vary in the examples of protein secretion - GCC and GCA were both used.

FIG. 14B

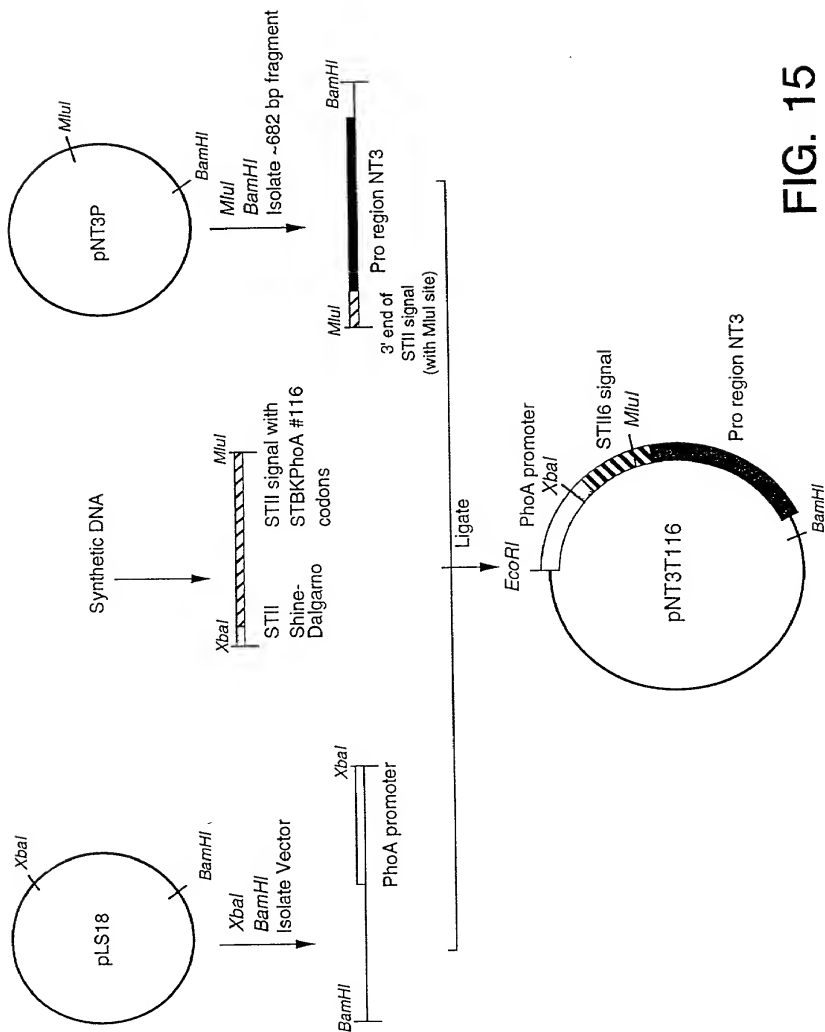


FIG. 15

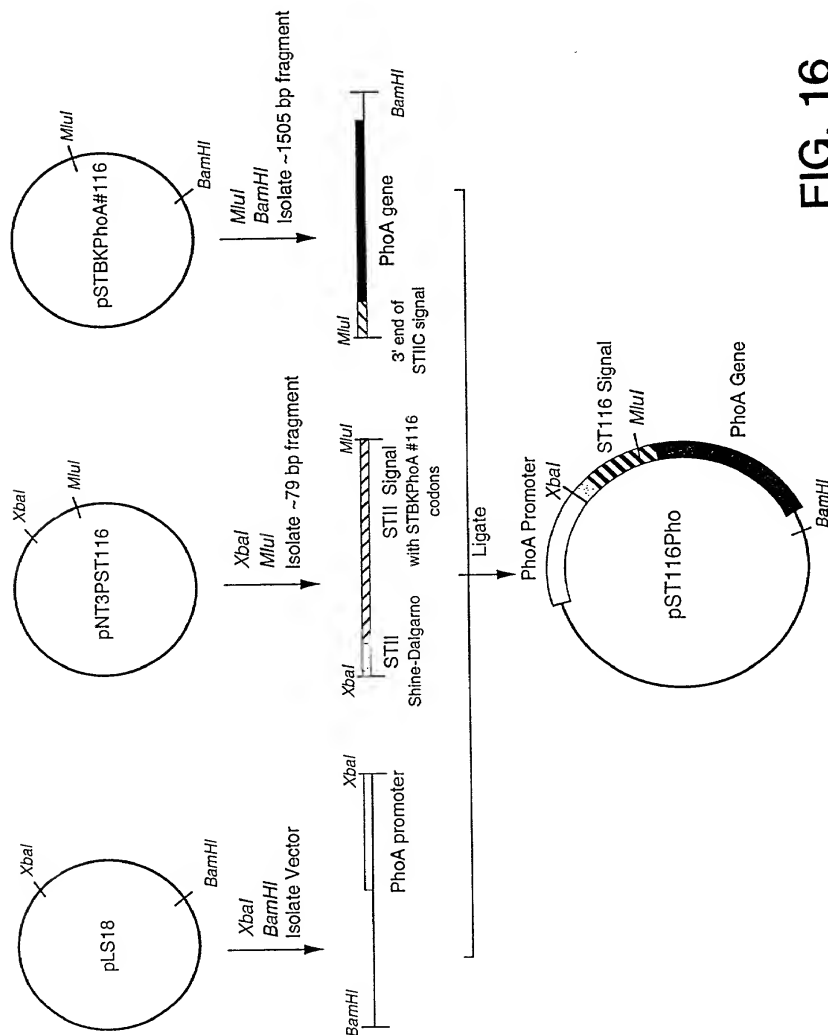
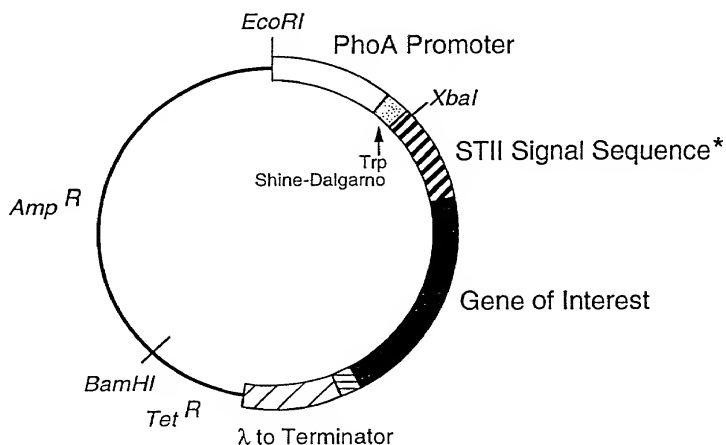
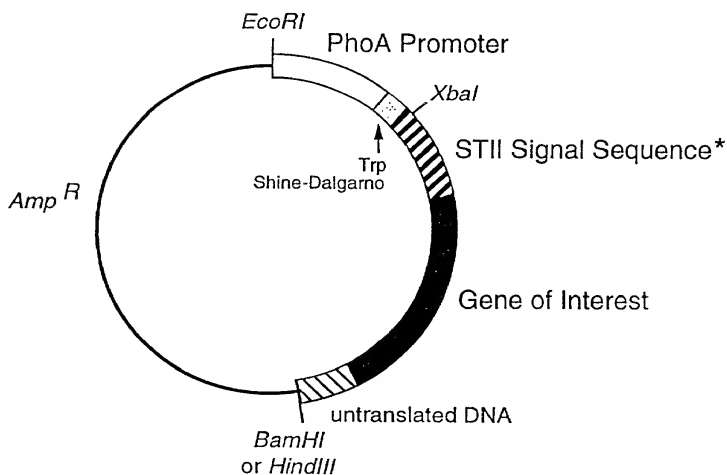


FIG. 16



* One of the nucleotide sequences listed in Figure 14 (STII Shine-Dalgarno may also be included).

FIG. 17



* One of the nucleotide sequences listed in Figure 14 (STII Shine-Dalgarno may also be included).

FIG. 18